

M A S S A C H U S E T T S D E P A R T M E N T O F P U B L I C H E A L T H
I M M U N I Z A T I O N P R O G R A M

**IMMUNIZATION LEVELS OF CHILDREN ENTERING KINDERGARTEN
PERCENT UP-TO-DATE
KINDERGARTEN IMMUNIZATION SURVEY**

MASSACHUSETTS 1975-2016

School Year¹	Number of Records	≥4 DTaP/ DTP²	5 DTaP/ DTP	≥3 Polio	4 Polio	≥1 MMR^{3,4}	2 MMR³	3 Hep B⁵	1 Varicella⁶	2 Varicella	History of chickenpox disease	Immunity to chickenpox⁷	Series Complete⁸
2016-17	70,109	N/A	96.1	N/A	96.6	N/A	96.1	97.5	N/A	95.4	0.3	95.7	94.1
2015-16	72,230	98.3	94.9	98.4	96.7	N/A	96.4	97.6	N/A	95.5	0.4	95.9	93.0
2014-15	74,869	98.6	92.1	98.3	94.4	N/A	94.7	96.9	N/A	93.6	0.5	94.2	90.9
2013-14	78,230	98.3	93.1	98.2	94.4	N/A	95.2	97.2	N/A	94.0	0.6	94.5	90.8
2012-13	77,767	98.4	93.2	98.4	94.2	N/A	94.9	97.8	N/A	93.6	0.7	94.3	90.4
2011-12	78,313	97.8	91.9	97.8	92.8	N/A	93.6	97.2	N/A	91.3	0.8	92.1	90.2
2010-11	75,710	97.8	89.9	97.9	91.0	98.1	91.2	96.6	17.9	79.2	0.60	97.7	87.5
2009-10	74,476	98.2	92.4	97.9	93.0	98.4	93.0	97.7	19.7	78.2	0.72	98.6	90.7
2008-09	77,411	98.1	91.4	98.2	92.4	98.2	93.9	98.2	32.7	64.4	0.74	97.8	92.3
2007-08	78,039	98.8	91.8	98.5	92.7	98.5	95.1	98.1	97.0	N/A	0.82	97.9	93.1

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2006-07	78,503	98.6	92.9	98.6	93.7	98.7	95.7	98.5	97.5	N/A	1.1	98.6	94.3
2005-06	78,511	98.4	91.8	98.5	92.7	98.5	95.7	97.8	96.6	N/A	1.4	98.0	94.0
2004-05	78,435	98.9	92.5	98.9	93.5	99.0	96.1	98.4	96.4	N/A	2.1	98.5	94.7
2003-04	78,966	97.7	92.0	97.8	92.7	97.8	94.8	98.1	94.7	N/A	3.5	98.2	93.1
2002-03	79,435	97.6	92.0	97.7	93.3	97.8	95.1	99.2	90.1	N/A	7.8	97.9	93.4
2001-02	79,588	98.5	91.6	98.6	93.2	98.5	95.5	97.7	82.7	N/A	14.6	97.3	93.8
2000-01	80,971	98.2	91.0	98.3	93.0	98.4	95.0	97.3	71.6	N/A	24.0	95.6	93.1
1999-00	80,360	97.3	89.8	97.2	91.7	98.0	94.3	96.3	58.5	N/A	34.5	93.1	92.4
1998-99	81,615	97.9	90.2	98.0	92.1	97.9	94.5	96.9	N/A	N/A	N/A	N/A	93.3
1997-98	85,304	96.8	88.6	97.0	91.0	97.3	93.3	84.1	N/A	N/A	N/A	N/A	91.5
1996-97	86,896	97.1	88.1	97.5	90.9	97.8	93.0	32.8	N/A	N/A	N/A	N/A	90.1
1995-96	89,955	99.2	91.3	97.3	90.9	99.0	90.3	N/A	N/A	N/A	N/A	N/A	87.9

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School Year ¹	Number of Records	≥4 DTaP/ DTP ²	5 DTaP/ DTP	≥3 Polio	4 Polio	≥1 MMR ^{3,4}	2 MMR ³	3 Hep B ⁵	1 Varicella ⁶	2 Varicella	History of chickenpox disease	Immunity to chickenpox ⁷	Series Complete ⁸
1994-95	88,456	98.2	N/A	98.7	N/A	99.0	N/A	N/A	N/A	N/A	N/A	N/A	97.7
1993-94	87,115	97.7	N/A	98.2	N/A	98.3	N/A	N/A	N/A	N/A	N/A	N/A	97.6
1992-93	84,734	98.0	N/A	98.5	N/A	98.6	N/A	N/A	N/A	N/A	N/A	N/A	NA
1991-92	83,644	98.2	N/A	98.6	N/A	98.7	N/A	N/A	N/A	N/A	N/A	N/A	NA
1990-91	83,200	98.9	N/A	98.5	N/A	99.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1989-90	80,400	97.3	N/A	97.9	N/A	98.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1988-89	79,034	97.6	N/A	97.9	N/A	98.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1987-88	79,568	97.7	N/A	97.3	N/A	98.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1986-87	68,505	97.0	N/A	96.9	N/A	97.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1985-86	73,486	98.8	N/A	98.6	N/A	99.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1984-85	69,848	98.9	N/A	98.8	N/A	99.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1983-84	66,216	99.1	N/A	99.1	N/A	99.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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School Year ¹	Number of Records	≥4 DTaP/DTP ²	5 DTaP/DTP	≥3 Polio	4 Polio	≥1 MMR ^{3,4}	2 MMR ³	3 Hep B ⁵	1 Varicella ⁶	2 Varicella	History of chickenpox disease	Immunity to chickenpox ⁷	Series Complete ⁸
1982-83	65,958	98.4	N/A	98.1	N/A	99.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1981-82	63,964	97.9	N/A	97.7	N/A	98.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1980-81	67,665	98.1	N/A	98.1	N/A	99.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1979-80	68,988	97.6	N/A	97.9	N/A	98.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1978-79	70,115	97.0	N/A	97.5	N/A	92.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1977-78	74,851	95.8	N/A	94.2	N/A	89.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1976-77	84,546	96.2	N/A	95.8	N/A	84.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1975-76	91,073	95.0	N/A	94.1	N/A	78.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹ Survey follow-up was not conducted in school year 2010-11, and was conducted for all schools in 2015-16 and 2016-17

2015-16: Data from 15 schools are omitted from this report due to data discrepancies.

2016-17: Data from 20 schools are omitted from this report due to data discrepancies.

² Diphtheria, tetanus, pertussis vaccine

³ Measles, mumps, rubella vaccine

⁴ Before 1994-95 school year, *only* 1 MMR was assessed; from 1995-2010, ≥ 1 MMR was assessed; beginning in 2011 only 2 MMR is assessed.

⁵ Hepatitis B vaccine

⁶ 1999-2007: Includes students with 1 or 2 doses of varicella vaccine

2008-2010: Includes students with ONLY 1 dose of varicella vaccine

⁷ 1999-2010: Includes students with 1 or 2 doses of varicella vaccine or a documented reliable history of chickenpox disease

2011-2016: Includes students with 2 doses of varicella vaccine or a documented reliable history of chickenpox disease

⁸ Series complete 1975-1994 = ≥4 DTaP/DTP and ≥3 polio and 1 MMR

Series complete 1995-2011 = 5 DTaP/DTP and 4 polio and 2 MMR

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Series complete 2012-2016 = 5 DTaP/DTP and 4 polio and 2 MMR and 3 Hepatitis B and 2 varicella

Source: Massachusetts Department of Public Health Immunization Program, Kindergarten Immunization Surveys, 1975-2016